

Speedmatic



Speedmatic Floor Surfer

Code Word Florwel

SPECIFICATIONS

Drum size, 12" wide x $6\frac{3}{4}$ " diameter

Drum speed, 1150 R.P.M.

Surface Speed, 2000 F.P.M.

Motor, $1\frac{1}{2}$ H.P., 1800 R.P.M., 110-220 volts, 60 cycle, 1 phase; or D.C. motor; capable of 100% overload (2 H.P. motor can be supplied)

Safety Switch

7" Aluminum fan for vacuum system driven by belt at 5000 R.P.M.

Measurements over all 36" long x $32\frac{1}{2}$ " high x $16\frac{1}{4}$ " wide

Net weight, 245 lbs.

Weight, 156 lbs. with motor and weight removed

Shipping weight, 395 lbs.

EQUIPMENT INCLUDES

100' Trailing wire

Paper templet

6 sheets assorted paper

Wrenches for changing paper on drum

Wrenches for carrying

Alemite fittings

Speedmatic

Floor Surfacers

THIS machine is the lightest heavy-duty floor surfacer on the market, unique in design and unusual in performance. It has been put through exhaustive tests and proven true before being placed on the market.

Despite the light weight, great pressure is applied to the drum to insure intensive cutting. This is accomplished in two ways. First the arms that support the drum are very long and are provided at the extreme ends and not in the center. Thus the weight of the drum is added to the pressure. Secondly, the 3° forward tilt given to the machine, which throws the weight of the motor, the 36 lb. added weight and the outside frame upon the drum through coil springs. The ordinary pressure is 82 lbs. However, an extra 60 lb. pressure can be applied at the handle. Over 100 lbs. of weight has been eliminated and yet there is as much or more pressure on the drum than most machines.

By using a smaller drum driven by 1½ H.P. motor at a high surface speed of 2000 ft. P.M., there is less abrasive cost as the friction surface between the drum and the floor is reduced. (Friction is caused by the dragging of the paper on the floor. After its first cut the abrasive material is filled and is of no use as a cutting agent until expelled on the upward turn of the drum. However, between these two operations—cutting and expelling—there is a distance over which the paper travels, causing friction, which means wearing of the abrasive). This distance is in ratio to the size of the drum. The greater the diameter of the drum the greater the friction surface and consequent wearing of abrasive. Having a high speed drum also cuts down abrasive cost as it is a fact that the faster the drum the less wear on the paper.

Tension or shock absorbing springs directly behind the drum insure an even cutting surface. A wavy surface is caused by vibration of machine and unevenness of the floor. If the drum of the SPEEDMATIC hits a high spot on one side it will just give on that side and will not lift the rest of the drum off the floor. Then, due to the terrific speed and

extra pressure exerted by the contracted spring, will cut the high spot and level the floor at this point before passing. We might call this the principle of the "floating drum." This gives a smooth finish that will please the most critical eye.

As no part of the machine except the arm protrudes on the right side of the machine (only ½"), the operator can sand the edge of the floor up to the quarter-round. This does away with any side drum or hand scraping.

The SPEEDMATIC is practically dustless due to the belt driven 7" fan, which travels at 5000 R.P.M. The tremendous vacuum created deposits most of the dust into the bag. No choking dust and none to settle on the furniture. We believe no other machine has such a powerful vacuum system to take care of this nuisance.

The switch is on the motor where it belongs, doing away with any surplus wires on the handle, which are in the way and cause trouble. This location also permits the motor to be quickly detached without interfering with the switch wiring.

A light socket, shown in the illustration, is also placed on the motor which throws a light forward, enabling the operator to see the work in dark or dimly lit rooms. It also can be used for other electrical tools, such as our TAKE-ABOUT Sander, thus making the 100' trailing wire serve two machines.

You should seriously consider the SPEEDMATIC, as its smaller, faster drum cuts a greater area of floor at less abrasive cost to you. The machine is precision built and of rugged construction, being made of steel, semi-steel, cast iron, and aluminum of the best material and guaranteed against any mechanical or electrical defects.

As we have been designing and building abrasive machines for years, we are in a position to know that this machine is properly built and that its design embodies principles that have been carefully worked out and found correct. While it is a new type of sander, it has passed the experimental stage and owners can depend on its successful operation.

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